Application Serial No.: 10/620,749

Attorney Docket No: 5701-01293

PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shan CONG et al.

Group: 3662

Serial No.: 10/620,749

Examiner: Ian J. LOBO

Filed: 15 July 2003

Attorney Docket No.: 5701-01293

For: ROAD CURVATURE ESTIMATION AND AUTOMOTIVE TARGET STATE

ESTIMATION SYSTEM /

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)(3)

29 March 2004

Mall Stop DD **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(3), i.e., filing the statement before the mailing date of a first Office action on the merits. Enclosed herewith is the List of References Cited by Applicant (PTO-1449).

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

# CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

#### MAILING

**FACSIMILE** transmitted by facsimile to the Patent and

Trademark Office to FAX number 703-872-9306.

deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop DD Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 29 March 2004

Kurt L. VanVoorhies

(type or print name of person certifying)

Sent By: DINNIN & DUNN, P.C.;

Application Serial No.: 10/620,749

Attorney Docket No: 5701-01293

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-01293 15 October 2003

Enclosure

Respectfully submitted,

Kurt L. VanVoorhies Registration No. 38,643

Phone:

248-364-2100

Facsimile:

248-364-2200

| Based on Form PTO-1449 |              |   |                            | ATTY, DOCKET NO.                        |                        | SERIAL NO. Page 1  |                              |  |  |  |
|------------------------|--------------|---|----------------------------|---|------------------------|--------------------|------------------------------|--|--|--|
| (3/90)                 |              |   |                            | 5701-01293                              |                        | 10/620,749         |                              |  |  |  |
|                        |              |   | İ                          | APPLICANT                               |                        |                    |                              |  |  |  |
|                        |              |   |                            | Shan CONG et al.                        |                        |                    |                              |  |  |  |
|                        |              |   |                            | FILING DATE 15 July 2003                |                        |                    |                              |  |  |  |
|                        |              |   |                            |   |                        | 29 March 2004      |                              |  |  |  |
|                        |              |   | U. 6.                      | PATENT DOCUMENTS                        |                        |                    |                              |  |  |  |
| EXAMINER<br>INITIAL    |              | DOCUMENT NUMBER   | DATE                       | NAME CLASS                              |                        | SUBCLASS           | FILING DATE IF<br>APPLICABLE |  |  |  |
|                        | AA           |   |                            |   |                        |                    |                              |  |  |  |
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|                        | AJ           |   |                            |   | •                      |                    |                              |  |  |  |
|                        | AK           |   |                            |   |                        |                    |                              |  |  |  |
|                        |              |   | FOREIG                     | IN PATENT DOCUMENTS                     |                        |                    |                              |  |  |  |
|                        |              | DOCUMENT NUMBER   | DATE                       | COUNTRY                                 | CLASS                  | SUBCLASS           | TRANSLATION<br>Yes No        |  |  |  |
|                        | AL.          |   |                            |   |                        | 2                  |                              |  |  |  |
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|                        | AO           |   |                            |   |                        |                    |                              |  |  |  |
|                        | AP           |   | •                          |   |                        |                    |                              |  |  |  |
|                        | <del> </del> | on  | HER PRIOR ART (Indu        | ding Author, Title, Date, Perlinent Pag | es, Etc.)              |                    |                              |  |  |  |
|                        | AR           | E. D. Dickmanns, A. Zapp. A curvature-based scheme for improving road vehicle guidance by computer vision. Mobile Robots. Cambridge, MA: SPIE, 1986; vol.727, p. 161-168. |                            |   |                        |                    |                              |  |  |  |
|                        | AS           | J. Goldbeck, B. Huertgen, S. Ernst, L. Kelch. Lane following combining vision and DGPS. Image and Vision Computing, vol. 18, 2000, p. 425-433.                            |                            |   |                        |                    |                              |  |  |  |
|                        | AT           | S. Shen, A Multisensor-Based Automotive Collision Prediction System, Ph.D. Dissertation, Wright State University, October, 2002.  |                            |   |                        |                    |                              |  |  |  |
| EXAMINER               |              |   |                            | DATE CONSIDERED                         |                        |                    |                              |  |  |  |
| * EXAMINER:            | initial if   | reference considered, whether or n  | ot citation is in conforma | ance with MPEP 609, Draw line throug    | n citation if not in o | ontormance and not |                              |  |  |  |
| considered             | . Include    | copy of this form with next commu   | nleation to applicant.     |   |                        |                    |                              |  |  |  |

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5701-01293

Shan CONG et al.

Application Serial No. 10/620,749

Filed 15 July 15 2003

Road Curvature Estimation and Automotive Target State Estimation System

Transmittal - 1 page

Information Disclosure Statement Under 37 CFR 1.97(b)(3) - 2 pages

3. Form PTO-1449 - 1 page

4. 3 Other Prior Art Documents (AR - 8 pages; AS - 9 pages; AT - 237 pages)

5. Certificate of Mailing (on items 1 & 2)

Please stamp date received and return. Thank You.

Dinnin & Dunn, P.C.

Priority Mail on

29 March 2004

Sent By: DINNIN & DUNN, P.C.;

Application No. 10/620,749

Information Disclosure Statement Dated 02 September 2004

Attorney Docket No. 5701-01293

Sep-2-04 6:21PM;

**PATENT** 

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/620,749

Confirmation No. CENTRAL FAX CENTER

SEP 0 2 200 a

**Applicant** Filed

: Shan CONG et al.

: 15 July 2003

TC/A.U.

: 3662

Examiner

: Isam A. ALSOMIRI

Title

: ROAD CURVATURE ESTIMATION AND AUTOMOTIVE TARGET

STATE ESTIMATION SYSTEM

Docket No.

: 5701-01293

Customer No. : 26659

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c)(1)

2 September 2004

Mail Stop DD **Commissioner for Patents** P.Q. Box 1460 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. § 1.56 and §§ 1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(c)(1), i.e., filing the statement after the mailing date of a first Office action on the merits but before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and it is accompanied by the statement specified in 37 C.F.R. § 1.97(e).

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

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deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box

1450, Alexandria, VA 22313-1450.

**FACSIMILE** transmitted by facsimile to the Patent and Trademark Office, Fax No. (703) 872-9306.

Signature

Kurt L. VanVoorhiea (type or print name of person certifying)

Date: 2 September 2004

1 248 364 2200;

Application No. 10/620,749 Information Disclosure Statement Dated 02 September 2004 Attorney Docket No. 5701-01293

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In accordance with 37 C.F.R. § 1.97(e), the undersigned hereby certifies that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. Accordingly, Applicant believes that no fee is due as a result of this Information Disclosure Statement.

Enclosed herewith is the List of References Cited by Applicant (PTO-1449), including copies of all references listed thereon. Copies of U.S. patents and U.S. patent application publications are not included herewith in accordance with the waiver published in a Pre-OG Notice dated 07/11/2003 which applies to all applications filed after June 30, 2003.

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-01293 2 September 2004

Registration No. 30,556

Respectfully Submitte

Phone: 248-364-2100

Facsimile: 248-364-2200

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| Based on For        | n PTO-1   | 449  |                         | ATTY. DOCKET NO.                    | SERIAL NO. Page 1<br>10/620,749 |                      |                              |  |  |  |
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| (3/90)              |           |  |                         | 5701-012                            |                                 |                      |                              |  |  |  |
|                     | •         |  |                         | APPLICANT Shan CONG et al.          |                                 |                      |                              |  |  |  |
|                     |           | \  |                         | FILING DATE<br>15 July 2003         |                                 | IDS DATE             |                              |  |  |  |
|                     |           |  |                         |                                     |                                 | 2 September 2004     |                              |  |  |  |
|                     |           |  | U. S.                   | PATENT DOCUMENTS                    |                                 |                      |                              |  |  |  |
| EXAMINER<br>INITIAL | ·         | OOCUMENT NUMBER  | DATE                    | NAME                                | CLASS                           | SUBCLASS             | FILING DATE IF<br>APPLICABLE |  |  |  |
|                     | AA        | US-2002/0049539 A1   | 04-2002                 | Russell et al.                      | 701                             | 301                  |                              |  |  |  |
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|                     |           |  | FOREIG                  | N PATENT DOCUMENTS                  | •                               |                      |                              |  |  |  |
|                     |           | DOCUMENT NUMBER  | DATE                    | COUNTRY                             | CLASS                           | SUBCLASS             | TRANSLATION<br>Yes No        |  |  |  |
|                     | AL        |  |                         | <u> </u>                            |                                 |                      |                              |  |  |  |
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|                     | AP        |  |                         |                                     |                                 |                      |                              |  |  |  |
|                     |           | OTHER  | PRIOR ART (Include      | ng Author, Title, Date, Pertinent   | Pages, Etc.)                    | <u></u>              |                              |  |  |  |
|                     | AR        | International Search Report in PCT/US03/22182, 1 July 2004 |                         |                                     |                                 |                      |                              |  |  |  |
|                     | AS        |  |                         |                                     |                                 |                      |                              |  |  |  |
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| considered.         | Include   | copy of this form with next comm                           | unication to applican   | t.                                  | mic tinodili citation           | ir not in contormant | e and net                    |  |  |  |

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